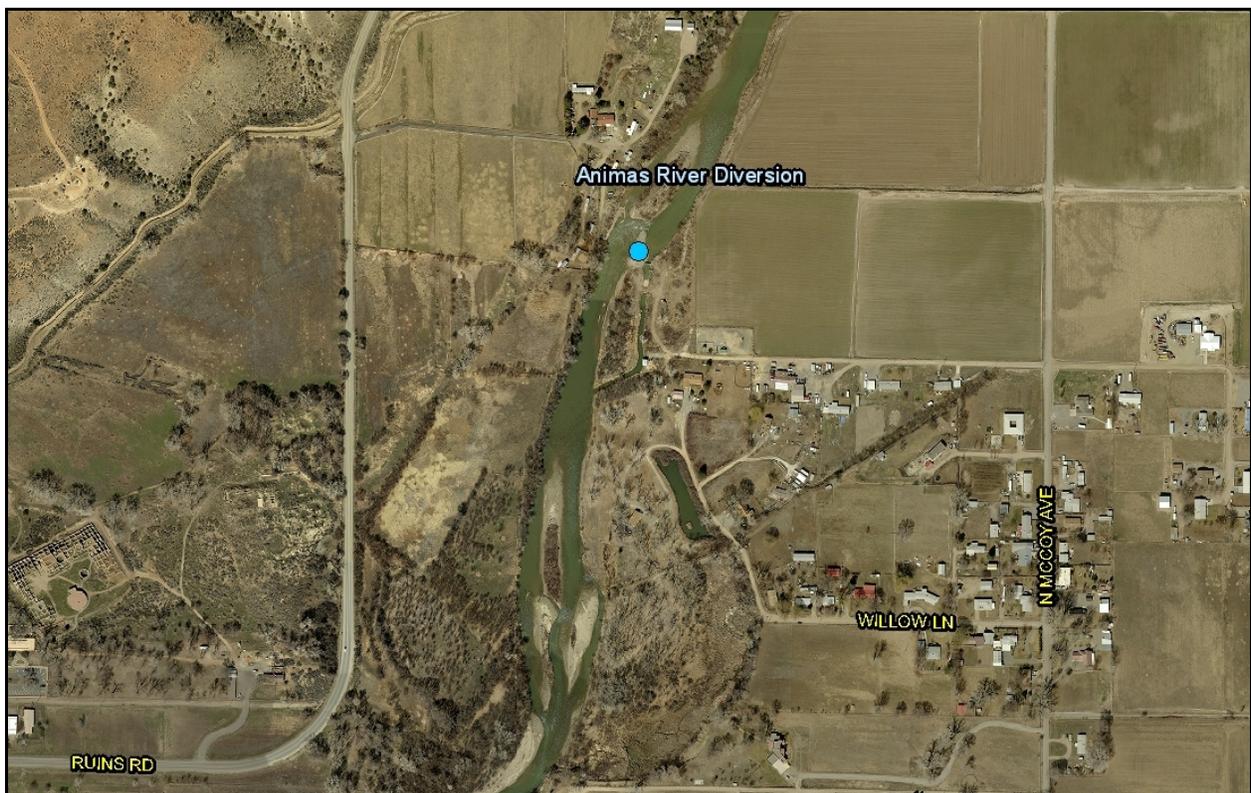


## Animas River Diversion

### History

This project would be to construct a permanent structure to divert water from the Animas River into the Animas River Pump Station. The City's Drinking Water Treatment System currently draws a portion of its source of raw water from the Animas River using the Animas River Pump Station. The River Pump is located on a short bypass ditch that allows water to flow by our Pump Station. During periods of low flow on the river (primarily October through mid-April) a temporary structure (dike) is required to divert water to the Pump Station. For years, the City has erected the temporary structure by pushing existing rubble from the river up into a temporary diversion dike. In the spring, during higher water periods, the diversion would wash down the river, and the City would have to repeat the reconstruction process in the fall.

The United States Army Corps of Engineers (USACE) has required a 404 Permit for the City to rebuild the temporary structure, and is now requiring a more permanent solution to minimize the impacts within the affected area. The City attempted to have a new 404 permit issued to continue with the current structure, but due to concerns expressed by the San Juan County Floodplain Manager and the New Mexico Environment Department's Surface Water Quality Bureau, the USACE denied the City's permit application. The City's permit for the temporary structure has expired, and the USACE has stated another permit to rebuild the temporary structure will not be issued. Any permanent structure will have to address the San Juan County Floodplain Manager and the New Mexico Environment Department's Surface Water Quality Bureau concerns prior to issuance of a 404 permit to build the permanent structure. During the winter, this system is the City's sole source of raw water. Without a permanent structure in place or the ability to restore the current temporary structure, the City could face the situation of not being able to have a source of raw water to feed to the Drinking Water Treatment Plant. This in turn could jeopardize the ability of the City to provide water service.



## **Current Work**

Design had been completed and the project went out to bid in January. However, upon further review and excessive bid costs, the project was not awarded and design under went changes. Project is being phased due to cost:

1. Head Gate Replacement. The contractor began construction on Monday, March 7, 2016. In July this project was complete. As part of the River Diversion project it will include dressing the river banks. The City is anticipating reimbursement for this project from the EPA.
2. Pump Station. Improvements include second submersible pump, Variable Frequency Drive (VFD) pump, SCADA programming (including fiber extension). Pump purchased 4/2015; SCADA improvements under contract with Pillar Innovations; City Electric Department has extending fiber; VFD pump will be purchased March 2016. City Funded \$200k. Project completed.
3. Channel Diversion. We have received the 404 permit from the US Army Corp of Engineering and are cleared to enter the river and move the riverbed. Doing so will move the thalweg (center flow and fastest flowing part of the river) to the east bank where our new headgate was constructed. CHC Engineering is currently working with the City Engineer to clean up the plans and specifications to go to bid on this project in early December.